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State Geologists

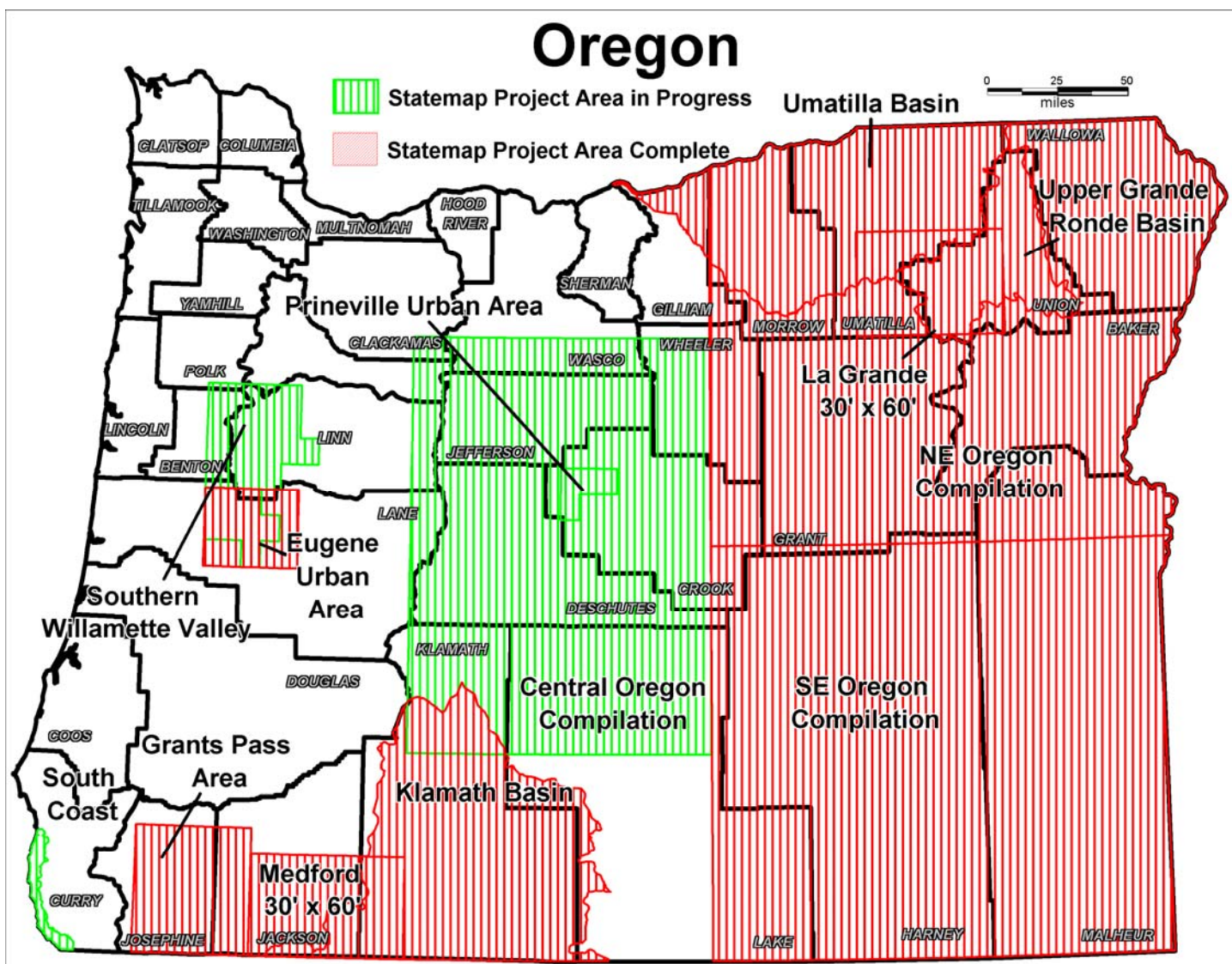


United States
Geological Survey



National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping



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SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN OREGON

Year	Project	State Funds	Federal Funds	Total Funds	Cumulative Funds	National Rank
2006	Southwest Oregon Compilation	\$209,000	\$87,000	\$296,000	\$3,997,000	
2006	Prineville Urban Area	\$93,000	\$89,000	\$182,000	\$3,701,000	5
2006	South Coast	\$46,000	\$46,000	\$92,000	\$3,519,000	
2005	Prineville, Willamette Valley, Central Compilation	\$214,000	\$207,000	\$421,000	\$3,427,000	10
2004	Grants Pass, Umatilla Basin, Eugene, SE Compilation	\$293,000	\$228,000	\$521,000	\$3,006,000	7
2003	Grants Pass, Umatilla Basin, Eugene, NE Compilation	\$274,000	\$233,000	\$507,000	\$2,485,000	9
2002	Grants Pass, Umatilla Basin, Eugene, Grande Ronde Basin	\$187,000	\$187,000	\$374,000	\$1,978,000	18
2001	Grants Pass, Umatilla Basin, Grande Ronde Basin	\$187,000	\$186,000	\$373,000	\$1,604,000	9
2000	Grants Pass, Klamath Basin, Grande Ronde Basin	\$215,000	\$142,000	\$357,000	\$1,231,000	2
1999	Klamath Basin, Grande Ronde Basin	\$212,000	\$145,000	\$357,000	\$874,000	1
1998	Klamath Basin, La Grande Sheet	\$138,000	\$128,000	\$266,000	\$517,000	7
1997	Medford Sheet, La Grande Sheet	\$139,000	\$112,000	\$251,000	\$251,000	12

Funding from the STATEMAP portion of the National Cooperative Geologic Mapping Program (NCGMP) has been at the core of the Oregon Department of Geology and Mineral Industries' (DOGAMI) geologic-mapping program for many years. The program has allowed DOGAMI to significantly increase the production of new maps and has, through the Oregon Geologic Mapping Advisory Committee, helped focus mapping on areas where resource- and hazard-management issues require good geologic data. Because so much of Oregon is a frontier state in terms of geologic mapping, DOGAMI's STATEMAP projects typically begin with a year or two of detailed mapping to understand the area's geology, followed by more regional mapping and compilation to provide the kind of coverage that users need. In FY 2003, we began a program to compile the entire state digitally using STATEMAP funds and funding from the Oregon Geographic Information Council.

Our current projects focus on the geology of rapidly developing urban areas (Southern Willamette Valley, Prineville Urban Area, South Coast) where detailed mapping is needed to manage growth, mitigate geologic hazards and understand critical ground-water problem. The digital compilation mapping fills the same needs at lower resolution over larger regions.

DOGAMI's recently released compilation map of the upper Grande Ronde Basin in NE Oregon has been used by the Grande Ronde Model Watershed in assessing the impact of geology on stream flow and water quality in their efforts to design projects to improve fish habitat in area streams. The digital geologic maps were used to look at geologic factors affecting stream flow, sediment load and stream temperature. The Model Watershed also benefited from the workshop that DOGAMI convened to introduce the new map and explain the geology of the basin.

In the Grants Pass area, the Oregon Water Resources Department has used recently released DOGAMI mapping to better understand the nature of heavily used aquifers. OWRD uses the maps directly to help landowners, developers and cities develop suitable water supplies. Of particular use is the delineation of geologic units with saline ground water.